PATENT COOPERATION TREATY REC'D 17 MAY 2005 From the INTERNATIONAL SEARCHING AUTHORITY WIPO To: PCT Larsen & Birkeholm A/S Banegårdspladse 1 WRITTEN OPINION OF THE P.O. Box 362 INTERNATIONAL SEARCHING AUTHORITY DK-1570 Copenhagen V Danmark (PCT Rule 43bis.1) Date of mailing 1 0 -05- 2005 (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below 18051 PCT International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/DK2005/000051 25.01.2005 06.02.2004 International Patent Classification (IPC) or both national classification and IPC F16J 15/32 // F16D 3/84 **Applicant** Codan Gummi A/S et al This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Lack of unity of invention Box No. IV Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Certain documents cited Box No. VI Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further opinions, see Form PCT/ISA/220.

Name and mailing address of the ISA/SE

Patent- och registreringsverket

Box 5055

S-102 42 STOCKHOLM

Facsimile No. +46 8 667 72 88

Authorized officer

Inger Löfving / JA A

Telephone No. +46 8 782 25 00

Form PCT/ISA/237 (cover sheet) (January 2004)

3. For further details, see notes to Form PCT/ISA/220.

International application No.

PCT/DK2005/000051

Во	x No. I	Basis of this opinion				*	
1.	which it v	ard to the language, this opiness filed, unless otherwise in this opinion has been established, which is the language. Add 23.1(b)).	ndicated under this ite	m. translation from	the original lang	guage into the foll	owing language,
2.	claimed in	ard to any nucleotide and/onvention, this opinion has been factorial a sequence listing table(s) related to the second	een established on the		e international a	application and ne	ecessary to the
	b. format	of material in written format in computer readable for	m			•	
	c. time o	of filing/furnishing contained in the internation filed together with the infurnished subsequently to	nternational application	n in computer rea		•	
3.	A 1424 and	In addition, in the case that filed or furnished, the requithat in the application as file.	ired statements that th	e information in	the subsequent	or additional copi	es is identical to
4.	Additions	al comments:					•
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International application No. PCT/DK2005/000051

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement		•	·
	Novelty (N)	Claims	1-4	YES
	·	Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-4	1.13

1-4 NO 1-4 Claims YES

Industrial applicability (IA) Claims NO

2. Citations and explanations:

The claimed invention relates a resilient sleeve preferably for sealing around shafts, rods and similar connecting means that solves the problem with mechanical impact, elasticity of the rubber, and withstanding the impacts from lubricants.

Cited documents:

D1: JP 2004-01998 A D2: US 3854733 A1 D3: US 6079715 A1

The principal document D1 describes a rotating shaft seal with a seal element (see no.7 in fig.1-2) with a spiral slot or a concentric groove (no.13) in about one half of the length of the bushing, and the grooves extend near the inner end. The seal no 9 in fig.1-2 has a sealing lip section made of HNBR.

The resilient sleeve described in claims 1-3 of the present invention differs from document D1 in that there is only one sealing sleeve, but with knowledge of document D2 it must be considered to be obvious for a person skilled in the art to achieve a seal according to claims 1-3.

What is claimed in claims 1-3 is therefore not considered to involve an inventive step.

What is claimed in claim 4 disclose only, to the extent they differ from above comments and cited documents D1-D3 details that are obvious to a person skilled in the art, and does therefore lack an inventive step.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 18051 PCT	FOR FURTHER ACTION	See item 4 below
International application No. PCT/DK2005/000051	International filing date (day/month/year) 25 January 2005 (25.01.2005)	Priority date (day/month/year) 06 February 2004 (06.02.2004)
International Patent Classification (8th See relevant information in Form F	h edition unless older edition indicated) PCT/ISA/237	•
Applicant CODAN TECH A/S		·

• .					
1.	This international preliminary rep International Searching Authority	ort on patentability (Chapter under Rule 44 bis. 1(a).	I) is issued by the International Bureau on behalf of the		
2.	This REPORT consists of a total	of 4 sheets, including this cov	rer sheet.		
	In the attached sheets, any referent to the international preliminary re		he International Searching Authority should be read as a reference r I) instead.		
3.	This report contains indications re	elating to the following items			
	Box No. I	Basis of the report			
	Box No. II	Priority .			
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
	Box No. IV	Lack of unity of invention			
	Box No. V		Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement		
•	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the intern	national application		
	Box No. VIII	Certain observations on the	international application		
4.	The International Bureau will connot, except where the applicant mate (Rule 44bis .2).	nmunicate this report to designakes an express request unde	nated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but r Article 23(2), before the expiration of 30 months from the priority		
	•		Date of issuance of this report 07 August 2006 (07.08.2006)		
	The International Burea 34, chemin des Colo 1211 Geneva 20, Swi	mbettes	Authorized officer Simin Baharlou		
Facsin	nile No. +41 22 338 82.70		e-mail: pt09@wipo.int		

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY From the REC'D 17 MAY 2005 INTERNATIONAL SEARCHING AUTHORITY To: Larsen & Birkeholm A/S Banegårdspladse 1, WRITTEN OPINION OF THE P.O. Box 362 INTERNATIONAL SEARCHING AUTHORITY DK-1570 Copenhagen V Danmark (PCT Rule 43bis.1) Date of mailing 0 -05- 2005 (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below 18051 PCT International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/DK2005/000051 25.01.2005 06.02.2004 International Patent Classification (IPC) or both national classification and IPC F16J 15/32 // F16D 3/84 Applicant Codan Gummi A/S et al 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II **Priority** Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Lack of unity of invention Box No. IV Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further opinions, see Form PCT/ISA/220.

Name and mailing address of the ISA/SE

Patent- och registreringsverket

Box 5055
S-102 42 STOCKHOLM

Facsimile No. +46 8 667 72 88

Authorized officer

Inger Löfving / JA A

Telephone No. +46 8 782 25 00

Form PCT/ISA/237 (cover sheet) (January 2004)

3. For further details, see notes to Form PCT/ISA/220.

International application No.

PCT/DK2005/000051

Box No. I	Basis of this opinion
which it wa	I to the language, this opinion has been established on the basis of the international application in the language in its filed, unless otherwise indicated under this item. s opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 23.1(b)).
	to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the vention, this opinion has been established on the basis of: material a sequence listing table(s) related to the sequence listing
b. format of	f material in written format in computer readable form
3. Ir	contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been alled or furnished, the required statements that the information in the subsequent or additional copies is identical to not in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional	comments:

International application No.

PCT/DK2005/000051

Box No. V	Reasoned statement applicability; citation	under Rule 4 is and explar	3 <i>bis</i> .1(a)(i) with regard to novelty, invations supporting such statement	entive step or industrial
1. Statemer	at ·			
Novel	ty (N)	Claims Claims	1-4	YES
Invent	tive step (IS)	Claims Claims	1-4	YES
Indust	rial applicability (IA)	Claims Claims	1-4	YES NO

2. Citations and explanations:

The claimed invention relates a resilient sleeve preferably for sealing around shafts, rods and similar connecting means that solves the problem with mechanical impact, the elasticity of the rubber, and withstanding the impacts from lubricants.

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PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:

Largen & Birkeholm A/C

	REC'D	1	7	MAY	2005
CT	WIPO	·			PCT

10.		DCJ#401PO		
Larsen & Birkeholm A/S Banegårdspladse 1 P.O. Box 362 DK-1570 Copenhagen V Danmark		TTEN OPINION OF THE ONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)		
	Date of mailing (day/month/year)	1 0 -05- 2005		
Applicant's or agent's file reference 18051 PCT	FOR FURTHER A	CTION See paragraph 2 below		
International application No. PCT/DK2005/000051 International 25.01.	al filing date (day/month/year) 2005	Priority date (day/month/year) 06.02.2004		
International Patent Classification (IPC) or both nation F16J 15/32 // F16D 3/84	onal classification and IPC			
Applicant Codan Gummi A/S et al				
1. This opinion contains indications relating to the fo	allowing items			
Box No. I Basis of the opinion	onowing items:			
Box No. II Priority	-			
	on with regard to novelty, inventiv	to stan and industrial and include		
Box No. IV Lack of unity of invention	on what logard to hovery, hiveling	e step and industrial applicability		
Box No. V Reasoned statement under R	Rule 43 <i>bis</i> .1(a)(i) with regard to no explanations supporting such states	ovelty, inventive step or industrial		
Box No. VI Certain documents cited	T was a septemble and a second			
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3. For further details, see notes to Form PCT/ISA/220).			
Name and mailing address of the ISA/SE Patent- och registreringsverket	Authorized officer			
BOX 5055 S-102 42 STOCKHOLM	Inger Löfvir	ng / JA A		
Facsimile No. +46 8 667 72 88	Telephone No. +46	Telephone No. +46 8 782 25 00		

Form PCT/ISA/237 (cover sheet) (January 2004)

International application No.

PCT/DK2005/000051

. Statement		• •	
Novelty (N)	Claims	1-4	YE
•	Claims		NO
Inventive step (IS)	Claims		· YE
,	Claims	1-4	NO NO
Industrial applicability (IA)	Claims	1-4	
	Claims		YE:

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